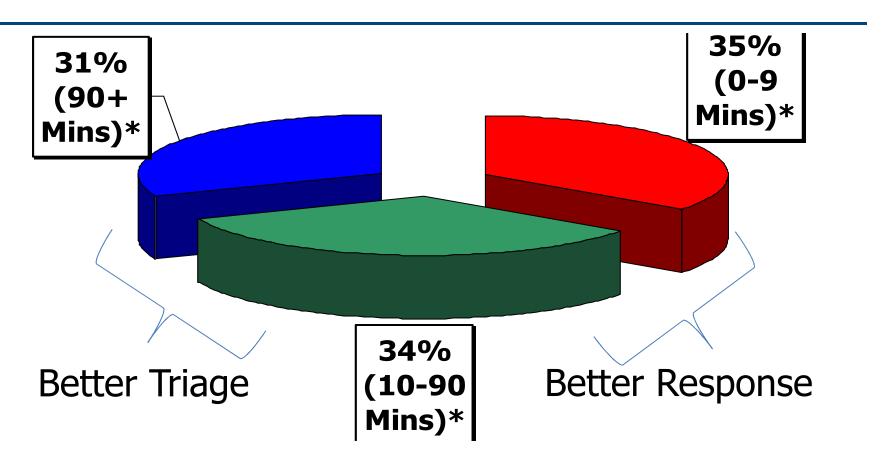
Want Zero Deaths? Engage the System that Saves Lives: EMS

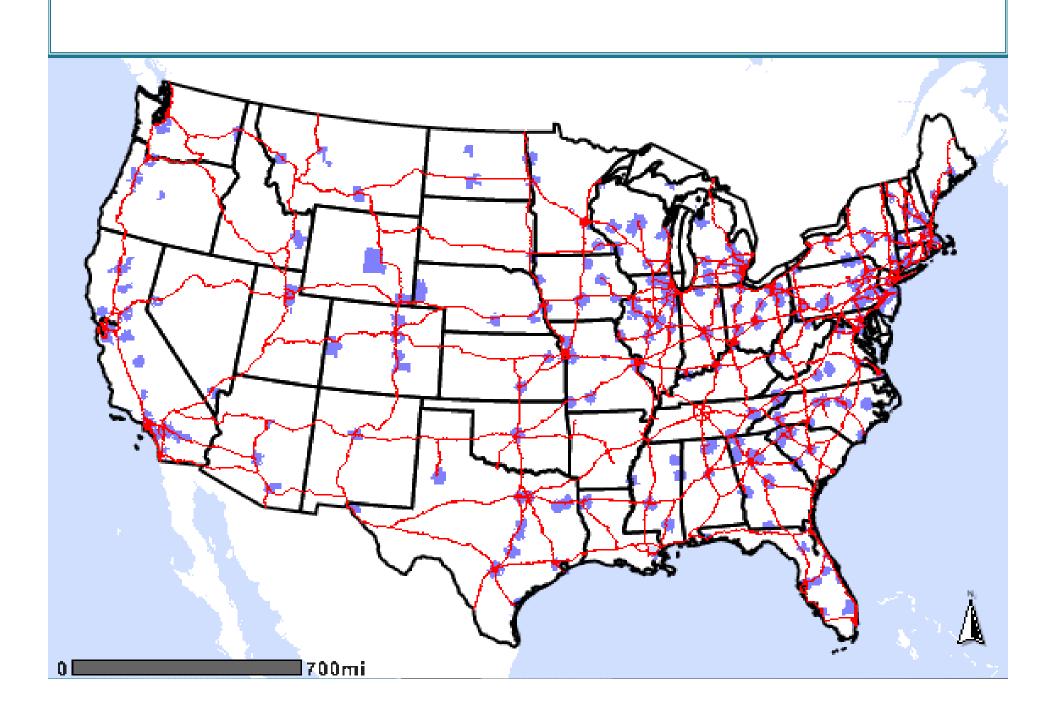


18th Annual Michigan Traffic Safety Summit March 28, 2013 Dia Gainor, NASEMSO Executive Director

Fatalities by Time of Death After Crash

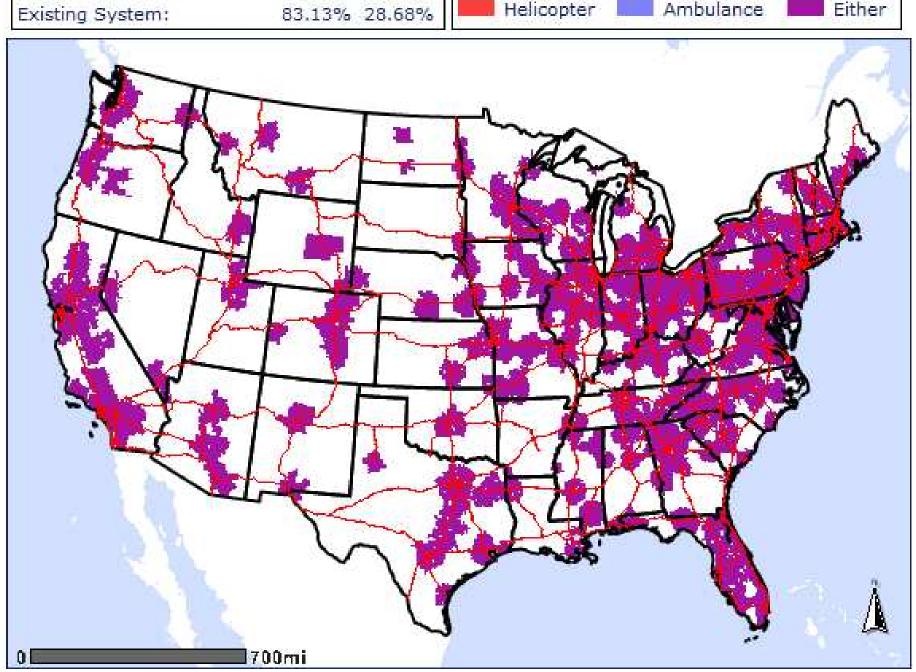


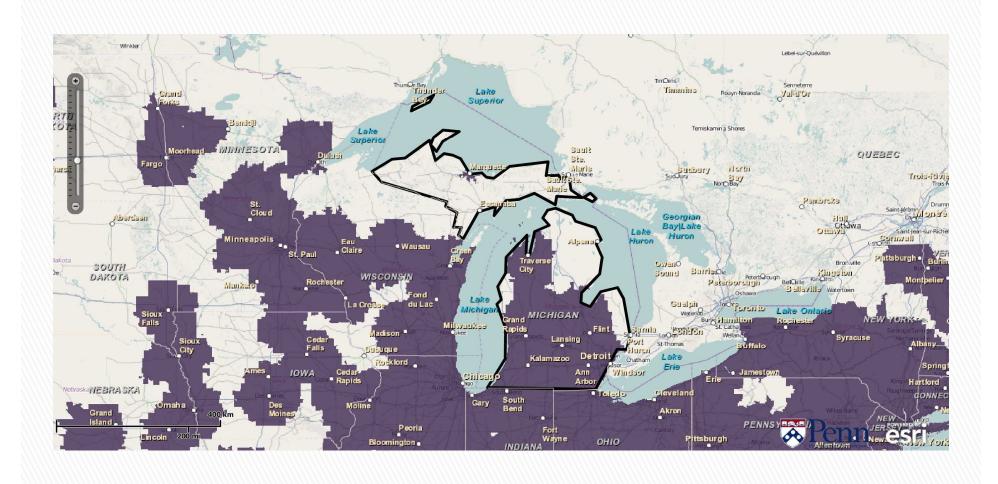
Minutes Post Crash



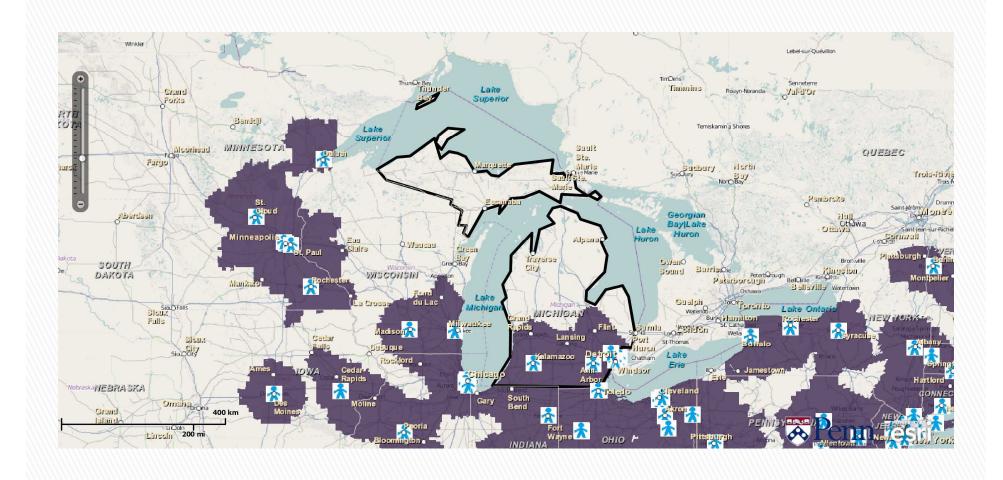
Level I/II Trauma Center Coverage % % Popn Land 83.13% 28.68%



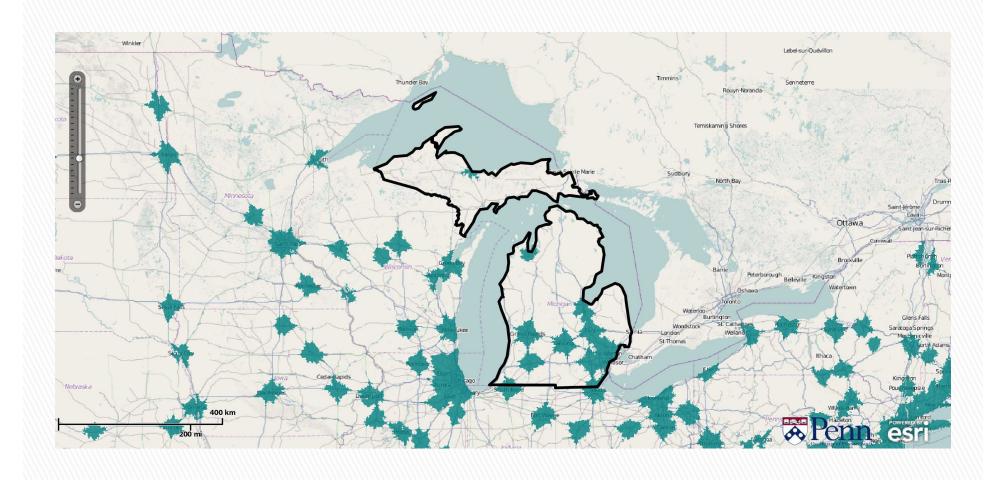




Adult Trauma Centers~60 Minute Transport Time by Helicopter (52% of land mass, 92% of the general population)



Pediatric Trauma Centers~60 Minute Transport Time by Helicopter (31% of land mass, 81% of the general population)



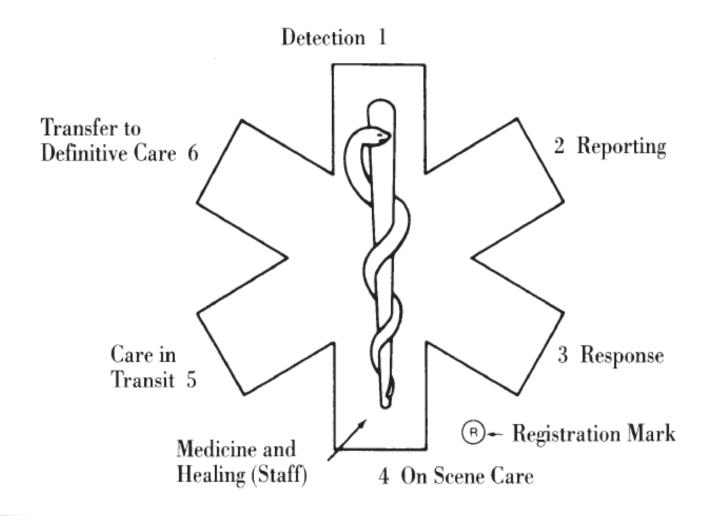
Adult Trauma Centers~60 Minute Transport Time No Helicopter (14% of land mass, 68% of the general population)



Pediatric Trauma Centers~60 Minute Transport Time (5% of land mass, 44% of the general population)



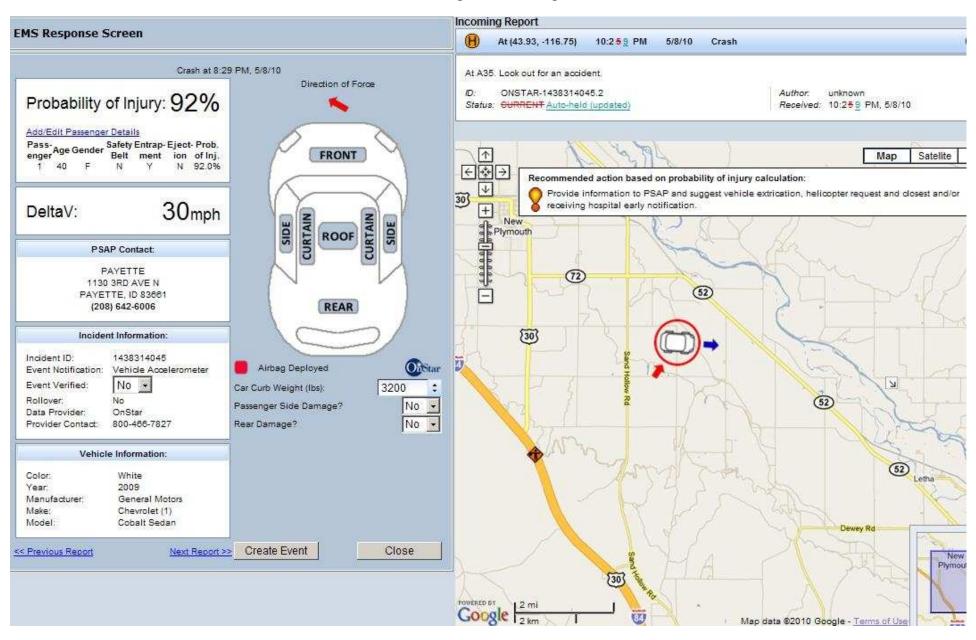
Organizing Ideas via the Star of Life



DETECTION SYSTEMS

- Telematics Data Definitions and Transmission Standards
- Advanced Automatic Collision
 Notification
- AACN Predictors for the Need for Vehicle Extrication

CARS Mayday Module



9-1-1 ACCESS AND CAPABILITIES

- Enhanced9-1-1 andPhase IICompliance
- Next Gen9-1-1







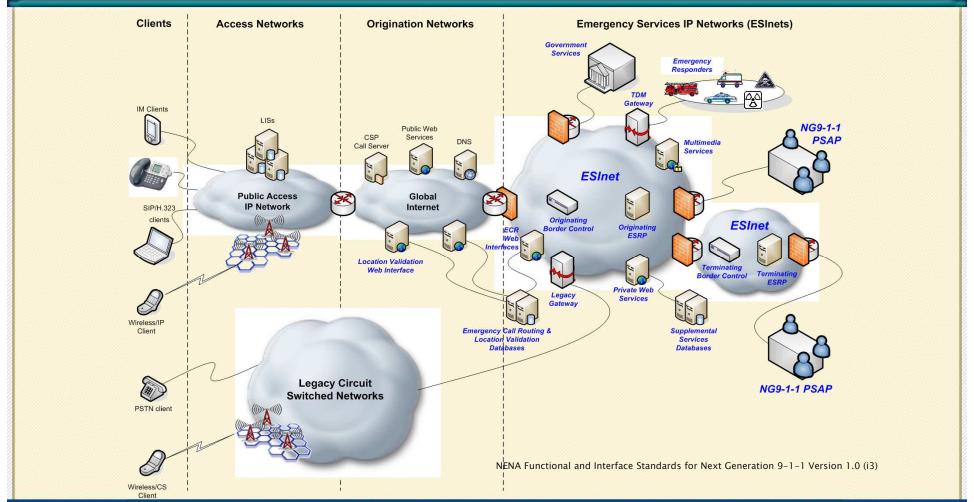












EMS RESPONSE AND CAPACITY

- Integrated Ambulance-Based Safety Systems
- Connected Emergency Response Vehicles
- Evidence-based Emergency Vehicle
 Operations Standards

EMS RESPONSE AND CAPACITY

- National EMS Scope of Practice Model and National EMS Education Standards
- Vehicle Extrication Education and Competency Standards
- Regionalization of Emergency Care

MODEL INVENTORY OF EMERGENCY CARE ELEMENTS



MODEL INVENTORY OF EMERGENCY CARE ELEMENTS ("MIECE")

- Q: "If a mass casualty incident happened on this stretch of highway, what RESOURCES could we expect to be available?
- Common, defined measurement system
- Geographically focused
- Allows for comparison between areas



MIECE Category 1: Personnel

MIECE Category 2: Transportation





MIECE
Category 3:
Equipment

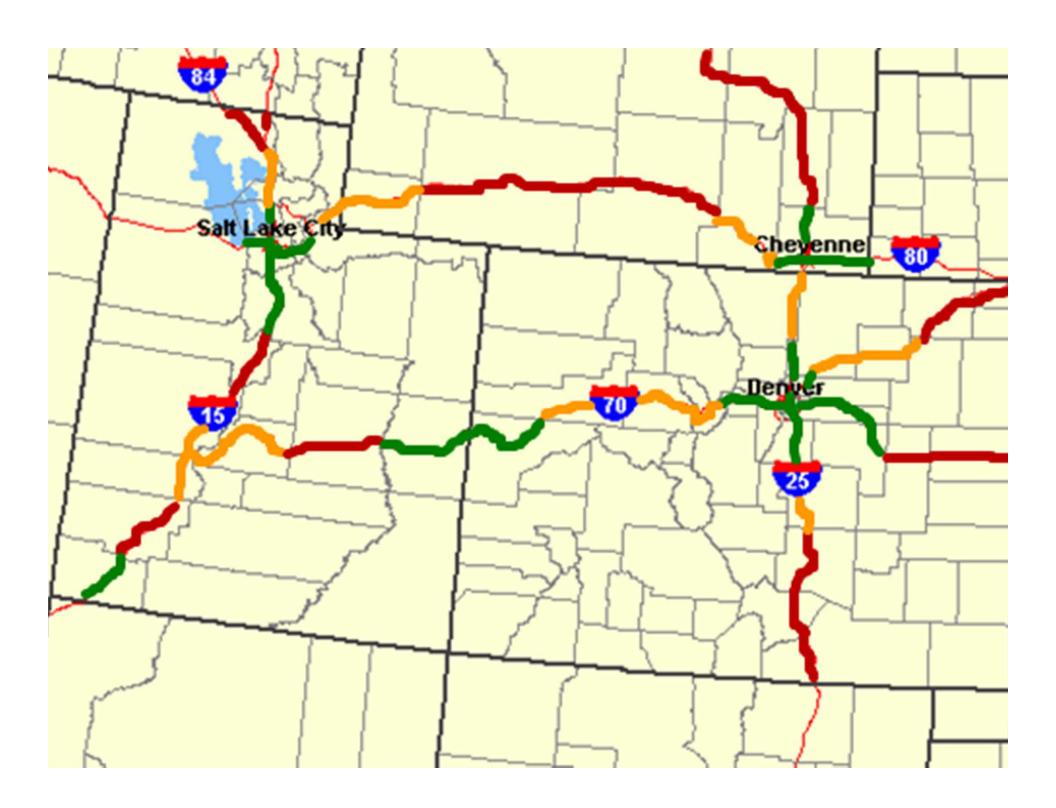


MIECE Category 4:
Public Safety
Answering Points
and
Communications

MIECE Category 5: Medical Facilities

MIECE Category 6: "OTHER"

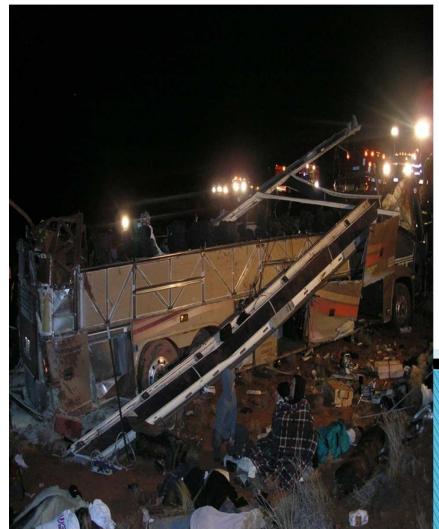




ON SCENE MEDICAL CARE

- Field Triage Decision Scheme:
 The National Trauma Triage
 Protocol
- The National Unified Goal for Traffic Incident Management

EMS INCIDENT RESPONSE AND READINESS ASSESSMENT



EMS INCIDENT RESPONSE & READINESS ASSESSMENT

- "What preparation/planning would we be doing in advance of a mass casualty incident on this stretch of highway in order to be optimally prepared?"
- Scale of responses from "unknown" to "none" to "awesome"
- Activity focused
- Allows for identification of opportunities for improvement

EIRRA Components



- PERSONNEL
- •INFRASTRUCTURE
- •EMERGENCY CARE SYSTEM
- •PUBLIC AWARENESS AND NOTIFICATION

EIRRA Components



- EVALUATION
- •MASS CASUALTY PLANNING
- GOVERNANCE
- •ADDENDUM STATE LEVEL

INFRASTRUCTURE – Transportation Operations



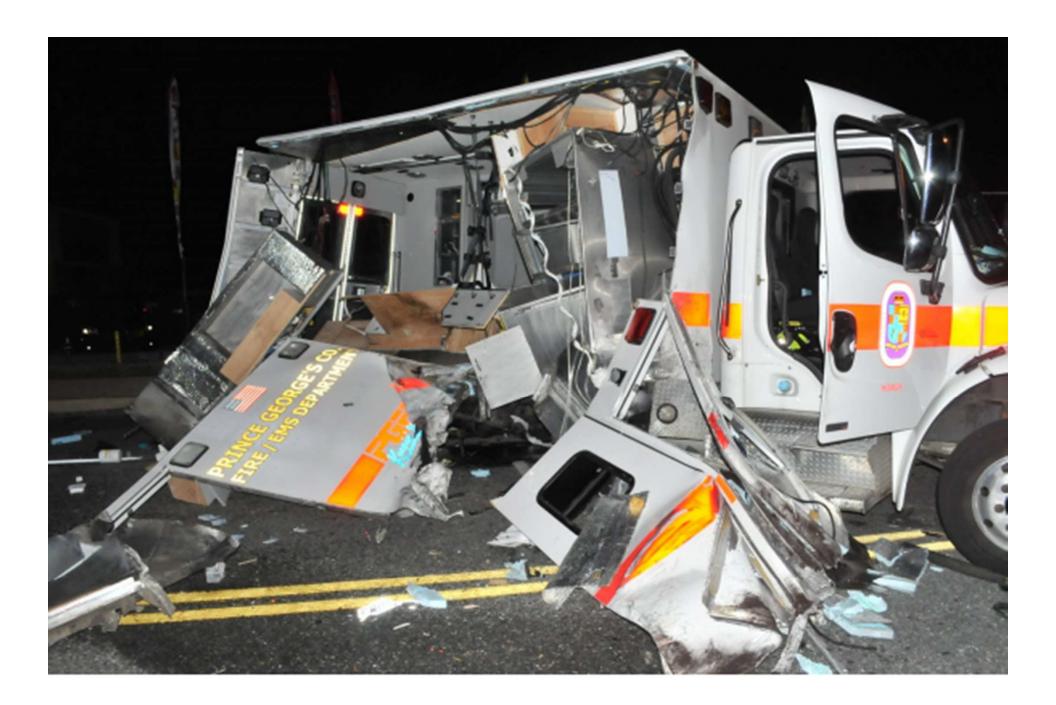
- Route Access & Awareness
- Access Control
- Vehicle and Personnel Staging
- Designated Landing Zones
- Transport of Special Equipment and Supplies

INFRASTRUCTURE – Technology/ Intelligence Sharing for Situational Awareness/Connected Vehicles

- Route availability/GPS
- Congestion
- Other Incidents
- Remote Weather Information Systems (RWIS)
- Advanced Automatic Crash Notification (AACN)
- Automatic EMS Vehicle Location Identification (AVL)

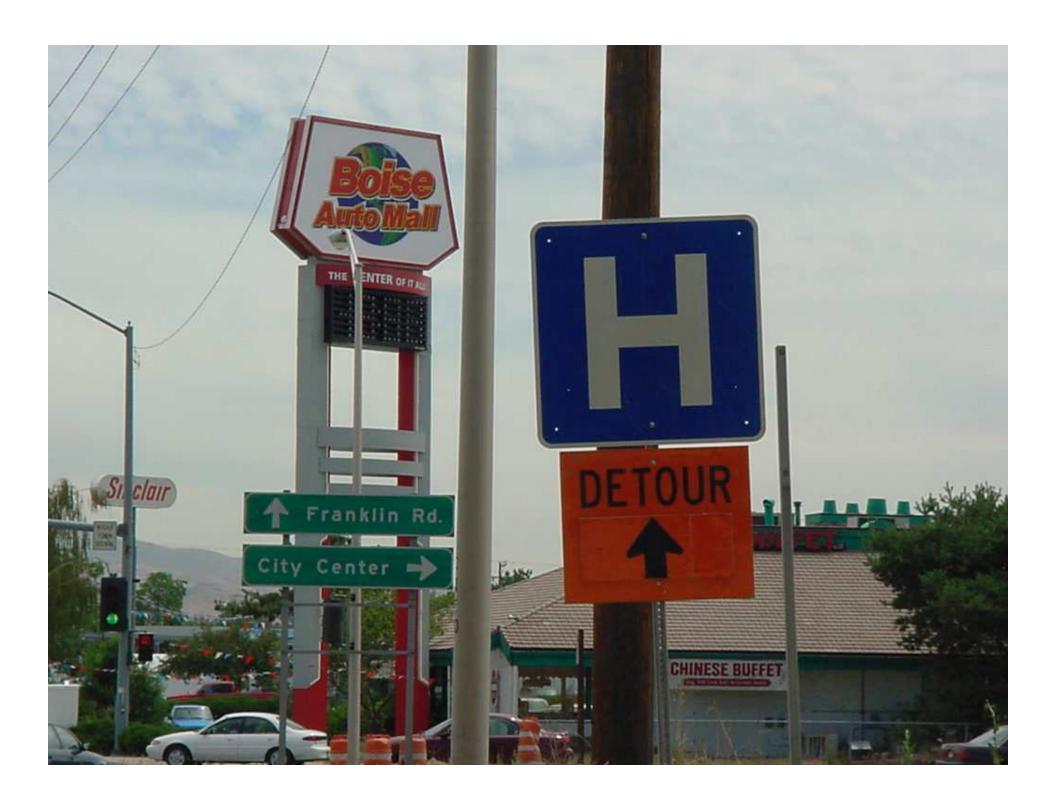
EIRRA: Many Uses

- Guidelines to identify areas of improvement and measure progress over time
- Can be used at the state, regional or local level
- Doubles for all-hazards preparedness assessment
- Can be used to identify needs for grants (DHS, 402, HSIP, etc.)



PATIENT TRANSPORTATION PARADIGMS

- Engineering and Design Standards for Ambulances
- Helicopter EMS Utilization Criteria
- Ambulance Access to Intelligent Transportation Systems (ITS) Infrastructure



DEFINITIVE CARE: HOSPITAL AND SPECIALITY CARE INFRASTRUCTURE

- Trauma Systems
- Prehospital and Interfacility Telemedicine Applications



CrashHelp System Prototype







For: EMT's / Paramedics in the field Google Android Compatible Phone Android Application For: Emergency Department / Trauma Center Web based interface





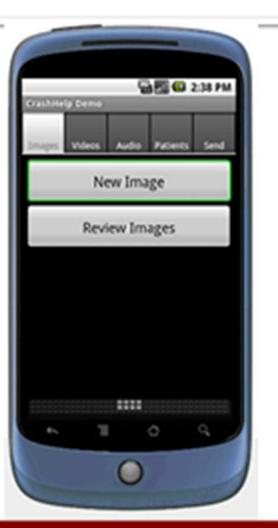




Mobile Phone Application

Take Pictures and Video











TIME Magazine March 25, 2013



CROSSCUTTING STRATEGIES:

- National EMS Information System
- Hospital Discharge Databases and/or Trauma Registries
- Records Linkage

SUMMARY: the 4th E

- Until the other 3 Es are 100% effective, EMS is the only hope the patients have
- Potential improvements through EMS cross many boundaries
- Technology an extremely promising area if EMS is considered
- Exploit your centers of excellence!

Dia Gainor Dia@NASEMSO.org

www.nasemso.org 208-861-4841



